

Claims:

1. A catalyst for purifying exhaust gases, comprising  
a catalyst component containing copper oxide, at least one  
5 zeolite member selected from the group consisting of ZSM-5  
and zeolite  $\beta$ , and an oxide of at least one element selected  
from the group consisting of magnesium and calcium.
2. A catalyst according to claim 1, wherein an amount  
10 of the zeolite member is in the range of 0.1 - 1 part by weight  
based on 1 part by weight of the copper oxide.
3. A catalyst according to claim 1 or 2, wherein an amount  
of the copper oxide is in the range of 3 - 14 g, and an amount  
15 of the zeolite member is in the range of 50 - 300 g, based  
on 1 liter of a refractory three dimensional structure.
4. A process for purifying an exhaust gas, which  
comprises exposing an exhaust gas purifying catalyst set forth  
20 in any of claim 1 - 3 to the exhaust gas, wherein a molar  
ratio of hydrocarbon to nitrogen oxides is 1 - 20:1.
5. A process according to claim 4, wherein the exhaust  
gas is from a diesel engine.

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